Saudi Electricity Company الشركة السعودية للكهرباء SDCS-01 SEC DISTRIBUTION CONSTRUCTION STANDARDS Dated: NOVEMBER 2004 (16)(17) 1200 (10) 9 550 34 800 3 4 (11) (8) 20121411 725

DRW.049-OC12S,12M, S.C.TAP-OFF ON INTERMEDIATE 0°-5° STRUC. W/STAYS

(6)



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: NOVEMBER 2004

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERE	NCES
01	1	OC12S — 12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	3	Crossarm - L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	3	Brace — L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	3	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	5	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	3 Set	Suspension Insulator	15-SDMS-01	Page 23
07	3	Parallel Groove Compression Connector for Merlin—Merlin	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
09	14	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	3	Strain Clamp, 3 U—Bolts Type for Merlin	20-SDMS-02	Fig. 29
14	4	Anchor Shackle		Fig. 20
15	3	Clevis Eye Extension		Fig. 21
16	3 Set	Set Preformed Armoured Rods for 170.5mm2 ASCR/AW (Merlin)		Fig. 38
17a	3	Preformed Line Post Insulator Top Tie for Merlin With Armour		Fig. 35
17b	2	Preformed Line Post Insulator Top Tie for Merlin	20-SDMS-02	Fig. 35
18	4	Double Arming Plate, 100x12x700mm		Fig. 07
19	1	Earthwire Support Plate	20-SDMS-02	Fig. 06
20	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
21	1 Set	Preformed Armoured Rods for 67.44mm2 ASCR/AW (Quail)	20-SDMS-02	Fig. 38
22	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
23	24M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
24	1 Set	M.VS.C. Two Stay Assembly	20-SDMS-02	Drw. 303
25	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
26	15M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
27	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
28	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
29	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.049A-OC12S, 12M, S.C. TAP-OFF ON INTERMEDIATE 0°-5° STRUC.
WITH STAYS FOR MERLIN MAIN & MERLIN TAP-OFF



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: NOVEMBER 2004

SERIAL	SERIAL QTY BILL OF MATERIALS DESCRIPTION REFERENCES					
NO.	ŲTI	BILL OF MATERIALS DESCRIPTION				
01	1	OC12S — 12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34		
02	3	Crossarm — L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01		
03	3	Brace — L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04		
04	3	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04		
05	5	Line Post Insulator	15-SDMS-01	Clause 4.2.8		
06	3 Set	Suspension Insulator	15-SDMS-01	Page 23		
07	3	Parallel Groove Compression Connector for Merlin — Quail	20-SDMS-02	Fig. 39		
08	1	Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39		
09	14	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15		
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15		
11	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15		
12	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30		
13	3	Strain Clamp, 3 U—Bolts Type for Quail	20-SDMS-02	Fig. 29		
14	4	Anchor Shackle	20-SDMS-02	Fig. 20		
15	3	Clevis Eye Extension	20-SDMS-02	Fig. 21		
16	3 Set	Preformed Armoured Rods for 170.5mm2 ASCR/AW (Merlin)	20-SDMS-02	Fig. 38		
17a	3	Preformed Line Post Insulator Top Tie for Merlin With Armour	20-SDMS-02	Fig. 35		
17b	2	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35		
18	4	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07		
19	1	Earthwire Support Plate	20-SDMS-02	Fig. 06		
20	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05		
21	1 Set	Preformed Armoured Rods for 67.44mm2 ASCR/AW (Quail)	20-SDMS-02	Fig. 38		
22	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54		
23	24M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)				
24	1 Set	M.V.—S.C. Two Stay Assembly	20-SDMS-02	Drw. 303		
25	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50		
26	15M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13		
27	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13		
28	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51		
29	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51		
		MERLIN MAIN & QUAIL TAP-OFF				
				•		

DRW.049B-OC12S, 12M,S.C. TAP-OFF ON INTERMEDIATE 0°-5° STRUC.
WITH STAYS FOR MERLIN MAIN & QUAIL TAP-OFF



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated:	NOVEMBER	2004

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERE	NCES
01	1	OC12S — 12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	3	Crossarm — L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	3	Brace - L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	3	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	5	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	3 Set	Suspension Insulator	15-SDMS-01	Page 23
07	3	Parallel Groove Compression Connector for Quail—Quail	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
09	14	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	3	Strain Clamp, 3 U—Bolts Type for Quail	20-SDMS-02	Fig. 29
14	4	Anchor Shackle	20-SDMS-02	Fig. 20
15	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	3 Set	Preformed Armoured Rods for 67.44mm2 ASCR/AW (Quail)	20-SDMS-02	Fig. 38
17a	3	Preformed Line Post Insulator Top Tie for Quail With Armour	20-SDMS-02	Fig. 35
17b	2	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
18	4	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
19	1	Earthwire Support Plate	20-SDMS-02	Fig. 06
20	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
21	1 Set	Preformed Armoured Rods for 67.44mm2 ASCR/AW (Quail)	20-SDMS-02	Fig. 38
22	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
23	24M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
24	1 Set	M.V.—S.C. Two Stay Assembly	20-SDMS-02	Drw. 301
25	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
26	15M	Anti—Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
27	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
28	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
29	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.049C-OC12S, 12M, S.C. TAP-OFF ON INTERMEDIATE 0°-5° STRUC.
WITH STAYS FOR QUAIL MAIN & QUAIL TAP-OFF

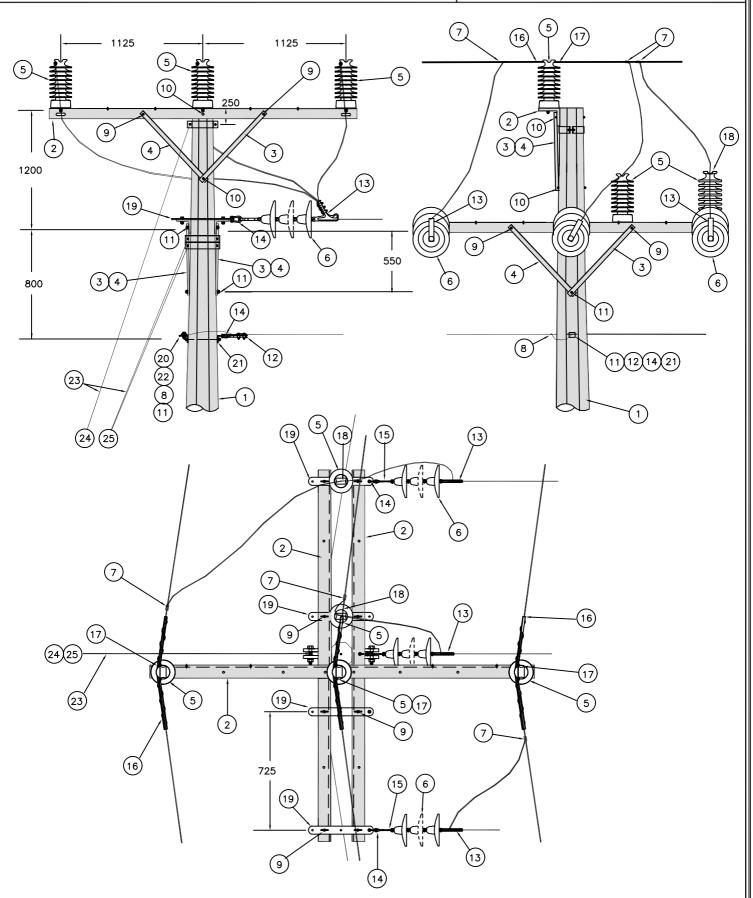


### الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: NOVEMBER 2004



DRW.050-OC12S,12M,S.C. TAP-OFF ON LIGHT ANGLE 6°-15° STURC.W/STAYS



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: NOVEMBER 2004

NO.         QTY         BILL OF MATERIAL           01         1         OC12S - 12 Meter Steel Pole, HDG           02         3         Crossarm - L 100x100x12x2400mn           03         3         Brace - L 50x50x4x828mm L.G.	, Single Circuit	20-SDMS-01 20-SDMS-02	Page 34
02 3 Crossarm — L 100x100x12x2400mn 03 3 Brace — L 50x50x4x828mm L.G.			rage 54
03 3 Brace — L 50x50x4x828mm L.G.	1 L.G.		Fig. 01
	race — L 50x50x4x828mm L.G.		Fig. 04
04	ith One End Clinned	20-SDMS-02 20-SDMS-02	Fig. 04
04	titi Olie Elia Clippea	15-SDMS-01	Clause 4.2.8
		15-SDMS-01	Page 23
06 3 Set Suspension Insulator 07 3 Parallel Groove Compression Connec			Fig. 39
		20-SDMS-02	
08 1 Parallel Groove Compression Connec	, , ,	20-SDMS-02	Fig. 39
09 14 Machine Bolt, M20x60mm With Nut,	· · · ·	20-SDMS-02	Fig. 15
	, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
	· • • • • • • • • • • • • • • • • • • •	20-SDMS-02	Fig. 15
12 1 Strain Clamp, Straight Line Deadenc		20-SDMS-02	Fig. 30
13 3 Strain Clamp, 3 U—Bolts Type for M	Merlin	20-SDMS-02 20-SDMS-02	Fig. 29
	Anchor Shackle		Fig. 20
·	Clevis Eye Extension		Fig. 21
	Preformed Armoured Rods for 170mm2 ACSR/AW (Merlin)		Fig. 38
	Preformed Line Post Insulator Side Tie for Merlin With Armour		Fig. 36
	Preformed Line Post Insulator Top Tie for Merlin		Fig. 35
19 4 Double Arming Plate, 100x12x700mi	Double Arming Plate, 100x12x700mm		Fig. 07
20 1 Earthwire Support Plate	Earthwire Support Plate		Fig. 06
21 1 Earthwire Suspension Support		20-SDMS-02	Fig. 05
22 1 Set Preformed Armoured Rods for 67.4	4mm2 ASCR/AW (Quail)	20-SDMS-02	Fig. 38
23 37M Stay Wire 7/4, 12mm Dia. HDG Sta	eel, UTS 101kN (Min)		
24 1 Set M.V.—S.C. One Stay Assembly		20-SDMS-02	Drw. 300
25 1 Set M.V.—S.C. Two Stay Assembly		20-SDMS-02	Drw. 301
26 2 Set Phasing Plates (A,B,C)		20-SDMS-02	Fig. 53/54
27 1 Set Danger Sign Plate Complete With Its	s Accessories	20-SDMS-02	Fig. 49/50
28 15M Anti-Climbing Device, Barbed Wire		20-SDMS-02	Fig. 13
29 2 Buckle Type, Locking Clip for Barbe	d Wire	20-SDMS-02	Fig. 13
30 1 Set Pole Numbering Base Plate		20-SDMS-02	Fig. 51
31 1 Set Pole Numbering Plates		20-SDMS-02	Fig. 51
170.5mm2 A	CSR/AW, MERLIN		

DRW.050A-OC12S, 12M, S.C. TAP-OFF ON LIGHT ANGLE STRUCTURE 6°-15° WITH STAYS FOR MERLIN MAIN & MERLIN TAP-OFF



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: NOVEMBER 2004

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERE	ICES	
01	1	OC12S - 12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34	
02	3	Crossarm - L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01	
03	3	Brace - L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04	
04	3	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04	
05	5	Line Post Insulator	15-SDMS-01	Clause 4.2.8	
06	3 Set	Suspension Insulator	15-SDMS-01	Page 23	
07	3	Parallel Groove Compression Connector for Merlin — Quail	20-SDMS-02	Fig. 39	
08	1	Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39	
09	14	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15	
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15	
11	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15	
12	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30	
13	3	Strain Clamp, 3 U—Bolts Type for Quail	20-SDMS-02	Fig. 29	
14	4	Anchor Shackle		Fig. 20	
15	3	Clevis Eye Extension		Fig. 21	
16	3 Set	Set Preformed Armoured Rods for 170mm2 ACSR/AW (Merlin)		Fig. 38	
17	3	Preformed Line Post Insulator Side Tie for Merlin With Armour		Fig. 36	
18	2	Preformed Line Post Insulator Top Tie for Quail		Fig. 35	
19	4	Double Arming Plate, 100x12x700mm		Fig. 7	
20	1	Earthwire Support Plate	20-SDMS-02	Fig. 06	
21	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05	
22	1 Set	Preformed Armoured Rods for 67.44mm2 ASCR/AW (Quail)	20-SDMS-02	Fig. 38	
23	37M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)			
24	1 Set	M.V.—S.C. One Stay Assembly	20-SDMS-02	Drw. 300	
25	1 Set	M.V.—S.C. Two Stay Assembly	20-SDMS-02	Drw. 301	
26	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54	
27	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49&50	
28	15M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13	
29	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13	
30	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51	
31	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51	
		MERLIN MAIN & QUAIL TAP-OFF			

DRW.050B-OC12S, 12M, S.C. TAP-OFF ON LIGHT ANGLE STRUCTURE 6°-15° WITH STAYS FOR MERLIN MAIN & QUAIL TAP-OFF



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: NOVEMBER	K 2004
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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERE	ences	
01	1	OC12S - 12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34	
02	3	Crossarm - L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01	
03	3	Brace - L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04	
04	3	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04	
05	5	Line Post Insulator	15-SDMS-01	Clause 4.2.8	
06	3 Set	Suspension Insulator	15-SDMS-01	Page 23	
07	3	Parallel Groove Compression Connector for Quail—Quail	20-SDMS-02	Fig. 39	
08	1	Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39	
09	14	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15	
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15	
11	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15	
12	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30	
13	3	Strain Clamp, 3 U—Bolts Type for Quail	20-SDMS-02	Fig. 29	
14	4	Anchor Shackle	20-SDMS-02	Fig. 20	
15	3	Clevis Eye Extension	20-SDMS-02	Fig. 21	
16	3 Set	Preformed Armoured Rods for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38	
17	3	Preformed Line Post Insulator Side Tie for Quail With Armour	20-SDMS-02	Fig. 36	
18	2	Preformed Line Post Insulator Top Tie for Quail		Fig. 35	
19	4	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 7	
20	1	Earthwire Support Plate	20-SDMS-02	Fig. 06	
21	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05	
22	1 Set	Preformed Armoured Rods for 67.44mm2 ASCR/AW (Quail)	20-SDMS-02	Fig. 38	
23	37M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (min)			
24	1 Set	M.V.—S.C. One Stay Assembly	20-SDMS-02	Drw. 300	
25	1 Set	M.V.—S.C. Two Stay Assembly	20-SDMS-02	Drw. 301	
26	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54	
27	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50	
28	15M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13	
29	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13	
30	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51	
31	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51	
		67.44mm2 ACSR/AW, QUAIL			

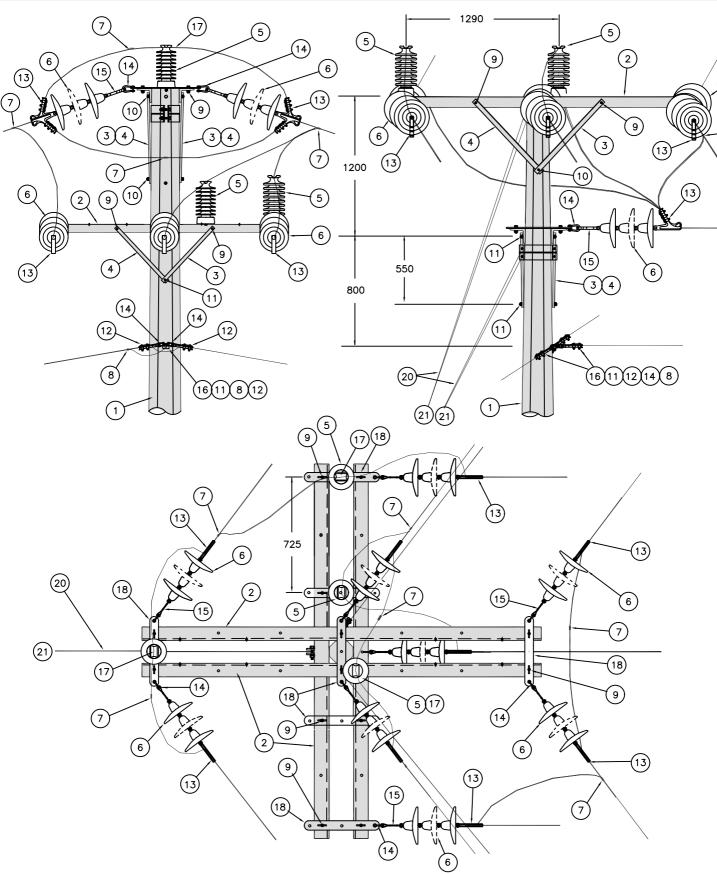
DRW.050C-OC12S, 12M, S.C. TAP-OFF ON LIGHT ANGLE STRUCTURE 6°-15° WITH STAY FOR QUAIL MAIN & QUAIL TAP-OFF

### الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: NOVEMBER 2004



DRW.051-OC12S, 12M, S.C. TAP-OFF ON MEDIUM & HEAVY 16°-90° ANGLE STRUCTURE WITH STAYS



### الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: NOVEMBER 2004

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION		NCES
01	1	OC12S — 12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	4	Crossarm — L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	4	Brace - L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	4	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	4	Line Post Insulator	15-SDMS-01	Clause 4.
06	9 Set	Suspension Insulator	15-SDMS-01	Page 23
07	6 Parallel Groove Compression Connector for Merlin—Merlin		20-SDMS-02	Fig. 39
08	2 Parallel Groove Compression Connector for Quail		20-SDMS-02	Fig. 39
09	22	22 Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer		Fig. 15
10	0 2 Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer		20-SDMS-02	Fig. 15
11	1 3 Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer		20-SDMS-02	Fig. 15
12	3	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	9	Strain Clamp, 3 U—Bolts Type for Merlin	20-SDMS-02	Fig. 29
14	14 12 Anchor Shackle		20-SDMS-02	Fig. 20
15	6 1 Earthwire Suspension Support		20-SDMS-02	Fig. 21
16			20-SDMS-02	
17			20-SDMS-02	Fig. 35
18	7	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
19	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/
20	51M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
21	2 Set	M.VS.C. Two Stay Assembly	20-SDMS-02	Drw. 304
22	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/
23	15M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
24	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
25	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
26	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
	<del> </del>	170.5mm2 ACSR/AW, MERLIN		

DRW.051A-OC12S, 12M, S.C.TAP-OFF ON MEDIUM & HEAVY ANGLE 16°-90° WITH STAYS FOR MERLIN MAIN & MERLIN TAP-OFF



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: NOVEMBER 2004

SERIAL NO.	QTY	QTY BILL OF MATERIALS DESCRIPTION REFERENCES		
01	1	OC12S — 12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	4	Crossarm — L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	4	Brace - L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	4	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	4	Line Post Insulator	15-SDMS-01	Clause 4.2.
06	9 Set	Suspension Insulator	15-SDMS-01	Page 23
07a	3	Parallel Groove Compression Connector for Merlin — Merlin	20-SDMS-02	Fig. 39
07b	3	Parallel Groove Compression Connector for Merlin — Quail 20-		Fig. 39
08	2	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
09	22	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13a	6	Strain Clamp, 3 U—Bolts Type for Merlin		Fig. 29
13b	3	Strain Clamp, 3 U-Bolts Type for Quail		Fig. 29
14	12	Anchor Shackle		Fig. 20
15	9	Clevis Eye Extension		Fig. 21
16	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
17a	2	Preformed Line Post Insulator Top Tie for Merlin	20-SDMS-02	Fig. 35
17b	2	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
18	7	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 7
19	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
20	51M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
21	2 Set	M.V.—S.C. Two Stay Assembly	20-SDMS-02	Drw. 304
22	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
23	15M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
24	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
25	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
26	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		MERLIN MAIN & QUAIL TAP-OFF		

DRW.051B-OC12S, 12M, S.C.TAP-OFF ON MEDIUM & HEAVY ANGLE 16°-90° WITH STAYS FOR MERLIN MAIN & QUAIL TAP-OFF



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated:	NOVEMBER	2004
Datea.	110 I EMEDIA	~~~1

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
01	1	OC12S — 12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	4	Crossarm - L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	4	Brace — L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	4	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	4	Line Post Insulator	15-SDMS-01	Clause 4.
06	9 Set	Suspension Insulator	15-SDMS-01	Page 23
07	6	Parallel Groove Compression Connector for Quail — Quail	20-SDMS-02	Fig. 39
08	2 Parallel Groove Compression Connector for Quail		20-SDMS-02	Fig. 39
09	22	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer		Fig. 15
10	2	2 Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer		Fig. 15
11	3 Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer		20-SDMS-02	Fig. 15
12	3	maximo bott, mboxboomin matricat, but maximo de l'opining masimo		Fig. 30
13	9	Strain Clamp, 3 U—Bolts Type for Quail	20-SDMS-02	Fig. 29
14			20-SDMS-02	Fig. 20
15			20-SDMS-02	Fig. 21
16	1 Earthwire Suspension Support		20-SDMS-02	Fig. 05
17	4			Fig. 35
18	7	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
19	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/
20	51M	Stay Wire 7/4 , 12mm Dia. HDG Steel, UTS 101kN (Min)		
21	2 Set	M.VS.C. Two Stay Assembly	20-SDMS-02	Drw. 304
22	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/
23	15M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
24	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
25	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
26	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.051C-OC12S, 12M, S.C.TAP-OFF ON MEDIUM & HEAVY ANGLE 16°-90° WITH STAYS FOR QUAIL MAIN & QUAIL TAP-OFF

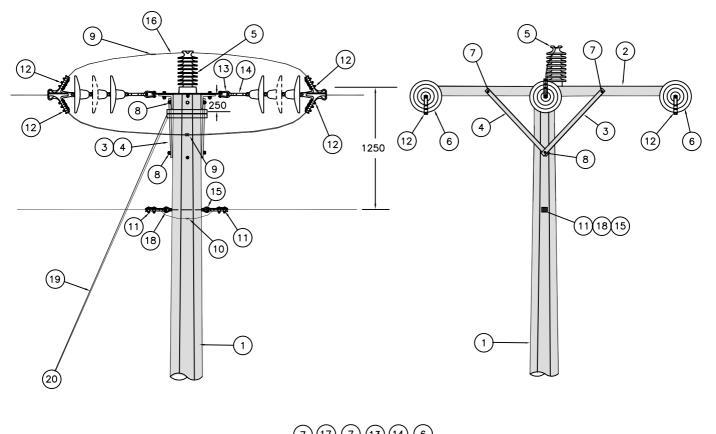


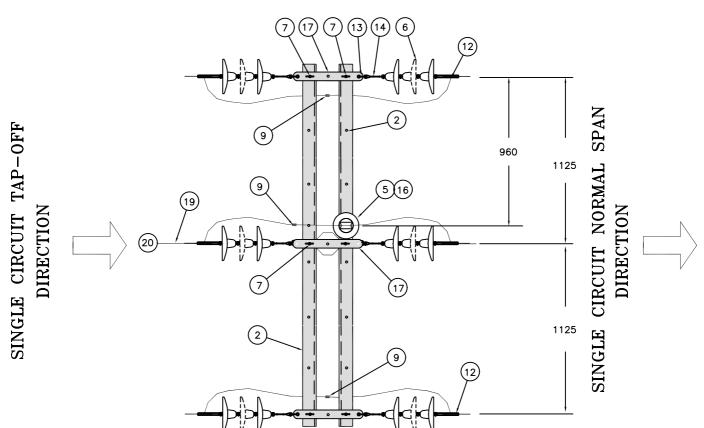
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SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: NOVEMBER 2004





DRW.052-OC12S, 12M, SINGLE CIRCUIT, SLACK POLE STRUC. WITH STAYS FROM SINGLE CIRCUIT TAP-OFF



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### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: NOVEMBER 2004

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION		NCES		
01	1	OC12S — 12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34		
02	2	Crossarm - L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01		
03	2	Brace — L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04		
04	2	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04		
05	1	Line Post Insulator	15-SDMS-01	Clause 4.2.8		
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23		
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15		
08	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15		
09	3	Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 39		
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39		
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30		
12	6	Strain Clamp, 3 U—Bolts Type for Merlin	20-SDMS-02	Fig. 29		
13	6	Anchor Shackle	20-SDMS-02	Fig. 20		
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21		
15	1	Shoulder Eye Bolt, M20x260mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17		
16	1	Preformed Line Post Insulator Top Tie For 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 35		
17	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07		
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19		
19	27M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)				
20	1 Set	M.V.—S.C. Two Stay Assembly	20-SDMS-02	Drw. 303		
21	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50		
22	15M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13		
23	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13		
24	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51		
25	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51		
		170.5mm2 ACSR/AW, MERLIN				
		TIOOMIN HOUNT AND MAINTIN				

DRW.052A-OC12S, 12M, SINGLE CIRCUIT, SLACK POLE STRUC. WITH STAYS FROM SINGLE CIRCUIT TAP-OFF (MERLIN MAIN)



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: NOVEMBER 2004

SERIAL NO.  01  02  03  04  05  06	2 2 2 1 6 Set	BILL OF MATERIALS DESCRIPTION  OC12S - 12 Meter Steel Pole, HDG, Single Circuit  Crossarm - L 100x100x12x2400mm L.G.  Brace - L 50x50x4x828mm L.G.  Brace - L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-01 20-SDMS-02 20-SDMS-02 20-SDMS-02	Page 34 Fig. 01 Fig. 04
02 03 04 05	2 2 2 1 6 Set	Crossarm - L 100x100x12x2400mm L.G.  Brace - L 50x50x4x828mm L.G.	20-SDMS-02 20-SDMS-02	Fig. 01
03 04 05	2 2 1 6 Set	Brace - L 50x50x4x828mm L.G.	20-SDMS-02	
04 05	2 1 6 Set			Fig. 04
05	1 6 Set	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	1
	6 Set			Fig. 04
06		Line Post Insulator	15-SDMS-01	Clause 4.2.8
		Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	6	Strain Clamp, 3 U—Bolts Type for Quail	20-SDMS-02	Fig. 29
13	6	Anchor Shackle	20-SDMS-02	Fig. 20
14	6	Clevis Eye Extension		Fig. 21
15	1	Shoulder Eye Bolt, M20x260mm W/2 Nuts, 1 Flat & 1 Spring Washers		Fig. 17
16	1	Preformed Line Post Insulator Top Tie For 67.4mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 35
17	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 7
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19
19	27M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
20	1 Set	M.V.—S.C. Two Stay Assembly	20-SDMS-02	Drw. 303
21	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
22	15M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
23	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
24	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
25	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.052B-OC12S, 12M, SINGLE CIRCUIT, SLACK POLE STRUC. WITH STAYS FROM SINGLE CIRCUIT TAP-OFF (QUAIL MAIN)

Saudi Electricity Company الشركة السعودية للكهرباء SDCS-01 SEC DISTRIBUTION CONSTRUCTION STANDARDS Dated: NOVEMBER 2004 (16)(17) 1200 (10) 9 550 34 800 3 4 (11) (8) 20121411 725

DRW.053-OC13S,13M, S.C.TAP-OFF ON INTERMEDIATE 0°-5° STRUC. W/STAYS

(6)



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SDCS-01

Dated: NOVEMBER 2004

SERIAL NO. BILL OF MATERIALS DESCRIPTION REFERENCE				NCES
01	1	OC13S — 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	3	Crossarm — L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	3	Brace — L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	3	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	5	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	3 Set	Suspension Insulator	15-SDMS-01	Page 23
07	3	Parallel Groove Compression Connector for Merlin—Merlin	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
09	14	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	3	Strain Clamp, 3 U—Bolts Type for Merlin	20-SDMS-02	Fig. 29
14	4	Anchor Shackle	20-SDMS-02	Fig. 20
15	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	3 Set	Preformed Armoured Rods for 170.5mm2 ASCR/AW (Merlin)	20-SDMS-02	Fig. 38
17a	3	Preformed Line Post Insulator Top Tie for Merlin With Armour	20-SDMS-02	Fig. 35
17b	2	Preformed Line Post Insulator Top Tie for Merlin	20-SDMS-02	Fig. 35
18	4	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
19	1	Earthwire Support Plate	20-SDMS-02	Fig. 06
20	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
21	1 Set	Preformed Armoured Rods for 67.44mm2 ASCR/AW (Quail)	20-SDMS-02	Fig. 38
22	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
23	26M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
24	1 Set	M.V.—S.C. Two Stay Assembly	20-SDMS-02	Drw. 301
25	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
26	16M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
27	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
28	1 Set	Pole Numbering Base Plates	20-SDMS-02	Fig. 51
29	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.053A-OC13S, 13M, S.C. TAP-OFF ON INTERMEDIATE 0°-5° STRUC.
WITH STAYS FOR MERLIN MAIN & MERLIN TAP-OFF



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: 24-06-2003

SERIAL				
NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S — 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	3	Crossarm — L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	3	Brace — L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	3	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	5	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	3 Set	Suspension Insulator	15-SDMS-01	Page 23
07	3	Parallel Groove Compression Connector for Merlin — Quail	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
09	14	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	3	Strain Clamp, 3 U—Bolts Type for Quail	20-SDMS-02	Fig. 29
14	4	Anchor Shackle	20-SDMS-02	Fig. 20
15	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	3 Set	Preformed Armoured Rods for 170.5mm2 ASCR/AW (Merlin)	20-SDMS-02	Fig. 38
17a	3	Preformed Line Post Insulator Top Tie for Merlin With Armour	20-SDMS-02	Fig. 35
17b	2	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
18	4	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
19	1	Earthwire Support Plate	20-SDMS-02	Fig. 06
20	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
21	1 Set	Preformed Armoured Rods for 67.44mm2 ASCR/AW (Quail)	20-SDMS-02	Fig. 38
22	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
23	26M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
24	1 Set	M.VS.C. Two Stay Assembly	20-SDMS-02	Drw. 301
25	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
26	16M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
27	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
28	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
29	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		MERLIN MAIN & QUAIL TAP-OFF		

DRW.053B-OC13S, 12M,S.C. TAP-OFF ON INTERMEDIATE 0°-5° STRUC.
WITH STAYS FOR MERLIN MAIN & QUAIL TAP-OFF



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: 24-06-2003

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERE	REFERENCES	
01	1	1 OC13S - 13 Meter Steel Pole, HDG, Single Circuit		Page 35	
02	3	Crossarm - L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01	
03	3	Brace — L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04	
04	3	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04	
05	5	Line Post Insulator	15-SDMS-01	Clause 4.2	
06	3 Set	Suspension Insulator	15-SDMS-01	Page 23	
07	3	Parallel Groove Compression Connector for Quail—Quail	20-SDMS-02	Fig. 39	
08	1	Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail) 20—SDM		Fig. 39	
09	14	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15	
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15	
11	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15	
12	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30	
13	3	Strain Clamp, 3 U—Bolts Type for Quail	20-SDMS-02	Fig. 29	
14	4	Anchor Shackle	20-SDMS-02	Fig. 20	
15	3	Clevis Eye Extension	20-SDMS-02	Fig. 21	
16	3 Set	Preformed Armoured Rods for 67.44mm2 ASCR/AW (Quail)	20-SDMS-02	Fig. 38	
17a	3	Preformed Line Post Insulator Top Tie for Quail With Armour	20-SDMS-02	Fig. 35	
17b	2	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35	
18	4	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07	
19	1	Earthwire Support Plate	20-SDMS-02	Fig. 06	
20	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05	
21	1 Set	Preformed Armoured Rods for 67.44mm2 ASCR/AW (Quail)	20-SDMS-02	Fig. 38	
22	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54	
23	26M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)			
24	1 Set	M.V.—S.C. Two Stay Assembly	20-SDMS-02	Drw. 301	
25	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50	
26	16M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13	
27	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13	
28	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51	
29	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51	
		67.44mm2 ACSR/AW, QUAIL			

DRW.053C-OC13S, 13M, S.C. TAP-OFF ON INTERMEDIATE 0°-5° STRUC.
WITH STAYS FOR QUAIL MAIN & QUAIL TAP-OFF

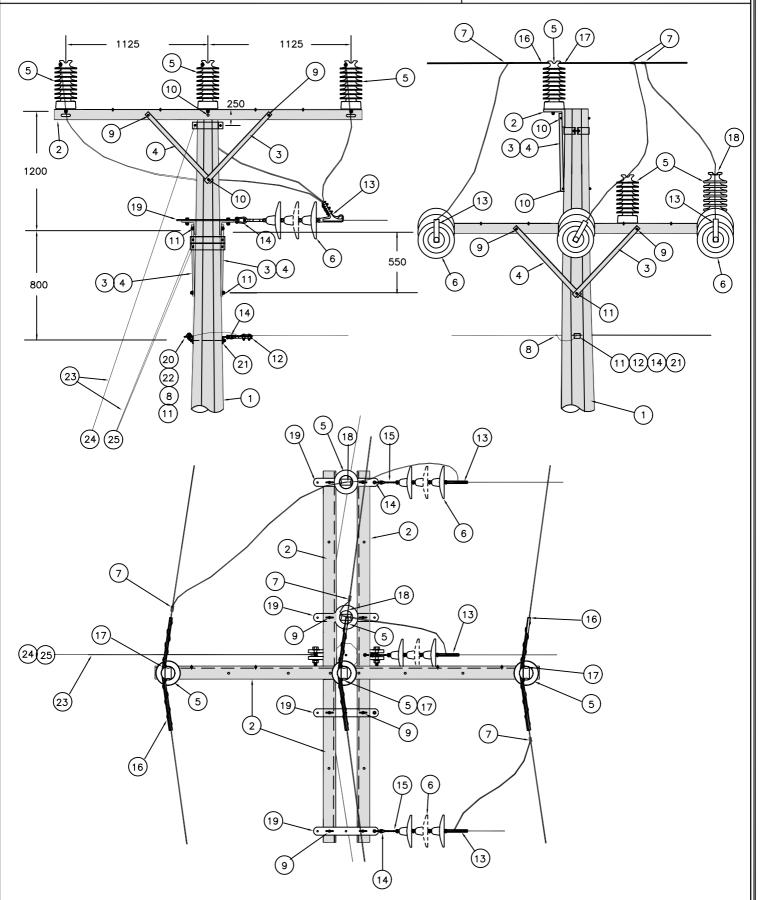


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SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: 24-06-2003



DRW.054-OC13S,13M,S.C. TAP-OFF ON LIGHT ANGLE 6°-15° STURC.W/STAYS



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### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: 24-06-2003

SERIAL NO.	QTY BILL OF MATERIALS DESCRIPTION		REFERE	ICES	
01	1	1 OC13S - 13 Meter Steel Pole, HDG, Single Circuit		Page 35	
02	3	Crossarm - L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01	
03	3	Brace — L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04	
04	3	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04	
05	5	Line Post Insulator	15-SDMS-01	Clause 4.2	
06	3 Set	Suspension Insulator	15-SDMS-01	Page 23	
07	3	Parallel Groove Compression Connector for Merlin—Merlin	20-SDMS-02	Fig. 39	
08	1	Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39	
09	14	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15	
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15	
11	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15	
12	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30	
13	3	Strain Clamp, 3 U—Bolts Type for Merlin	20-SDMS-02	Fig. 29	
14	4	Anchor Shackle	20-SDMS-02	Fig. 20	
15	3	Clevis Eye Extension		Fig. 21	
16	3 Set	Preformed Armoured Rods for 170mm2 ACSR/AW (Merlin)		Fig. 38	
17	3	Preformed Line Post Insulator Side Tie for Merlin With Armour	20-SDMS-02	Fig. 36	
18	2	Preformed Line Post Insulator Top Tie for Merlin	20-SDMS-02	Fig. 35	
19	4	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 7	
20	1	Earthwire Support Plate	20-SDMS-02	Fig. 06	
21	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05	
22	1 Set	Preformed Armoured Rods for 67.44mm2 ASCR/AW (Quail)	20-SDMS-02	Fig. 38	
23	41M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)			
24	1 Set	M.V.—S.C. One Stay Assembly	20-SDMS-02	Drw. 300	
25	1 Set	M.V.—S.C. Two Stay Assembly	20-SDMS-02	Drw. 301	
26	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/5	
27	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/5	
28	16M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13	
29	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13	
30	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51	
31	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51	
		170.5mm2 ACSR/AW, MERLIN			

DRW.054A-OC13S, 13M, S.C. TAP-OFF ON LIGHT ANGLE STRUCTURE 6°-15° WITH STAYS FOR MERLIN MAIN & MERLIN TAP-OFF



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: 24-06-2003

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION		ICES
01	1	OC13S — 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	3	Crossarm - L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	3	Brace — L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	3	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	5	Line Post Insulator	15-SDMS-01	Clause 4.2
06	3 Set	Suspension Insulator	15-SDMS-01	Page 23
07	3	Parallel Groove Compression Connector for Merlin — Quail	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
09	14	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	3	Strain Clamp, 3 U—Bolts Type for Quail	20-SDMS-02	Fig. 29
14	4	Anchor Shackle		Fig. 20
15	3	Clevis Eye Extension		Fig. 21
16	3 Set	Preformed Armoured Rods for 170mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
17	3	Preformed Line Post Insulator Side Tie for Merlin With Armour	20-SDMS-02	Fig. 36
18	2	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
19	4	Double Arming Plate, 100x12x700mm		Fig. 7
20	1	Earthwire Support Plate	20-SDMS-02	Fig. 06
21	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
22	1 Set	Preformed Armoured Rods for 67.44mm2 ASCR/AW (Quail)	20-SDMS-02	Fig. 38
23	41M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
24	1 Set	M.VS.C. One Stay Assembly	20-SDMS-02	Drw. 300
25	1 Set	M.V.—S.C. Two Stay Assembly	20-SDMS-02	Drw. 301
26	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
27	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49&50
28	16M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
29	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
30	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
31	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		MERLIN MAIN & QUAIL TAP-OFF		

DRW.054B-OC13S, 13M, S.C. TAP-OFF ON LIGHT ANGLE STRUCTURE 6°-15° WITH STAYS FOR MERLIN MAIN & QUAIL TAP-OFF



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: 24-06-2003

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERE	NCES	
01	1	OC13S — 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35	
02	3	Crossarm - L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01	
03	3	Brace - L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04	
04	3	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04	
05	5	Line Post Insulator	15-SDMS-01	Clause 4.2.8	
06	3 Set	Suspension Insulator	15-SDMS-01	Page 23	
07	3	Parallel Groove Compression Connector for Quail—Quail	20-SDMS-02	Fig. 39	
08	1	Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39	
09	14	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15	
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15	
11	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15	
12	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30	
13	3	Strain Clamp, 3 U—Bolts Type for Quail	20-SDMS-02	Fig. 29	
14	4	Anchor Shackle	20-SDMS-02	Fig. 20	
15	3	Clevis Eye Extension	20-SDMS-02	Fig. 21	
16	3 Set	Preformed Armoured Rods for 67.44mm2 ACSR/AW (Quail)		Fig. 38	
17	3	Preformed Line Post Insulator Side Tie for Quail With Armour	20-SDMS-02	Fig. 36	
18	2	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35	
19	4	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07	
20	1	Earthwire Support Plate	20-SDMS-02	Fig. 06	
21	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05	
22	1 Set	Preformed Armoured Rods for 67.44mm2 ASCR/AW (Quail)	20-SDMS-02	Fig. 38	
23	41M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)			
24	1 Set	M.V.—S.C. One Stay Assembly	20-SDMS-02	Drw. 300	
25	1 Set	M.V.—S.C. Two Stay Assembly	20-SDMS-02	Drw. 301	
26	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54	
27	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50	
28	16M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13	
29	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13	
30	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51	
31	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51	
		67.44mm2 ACSR/AW, QUAIL			

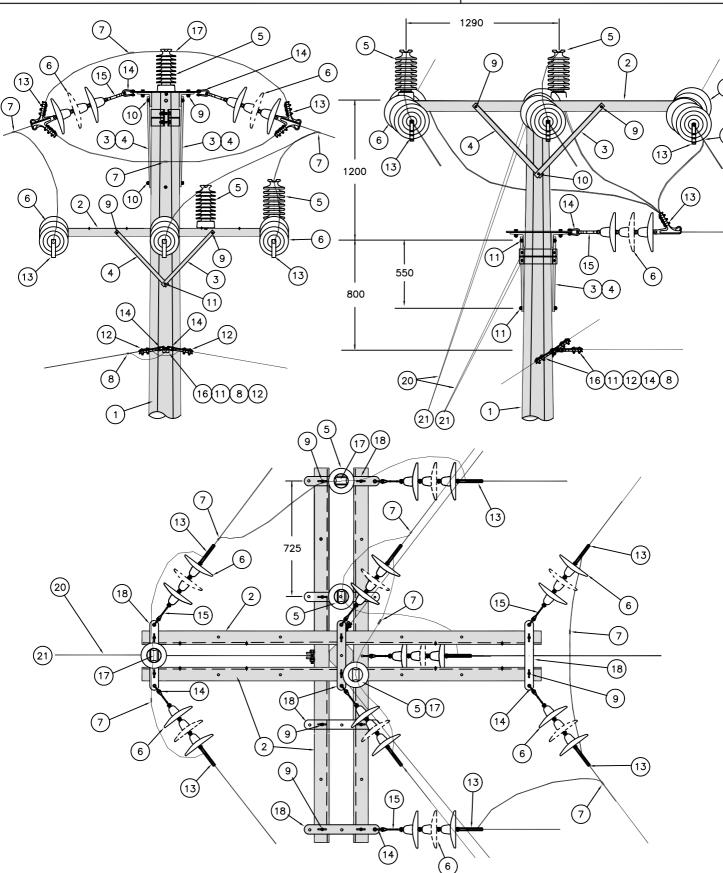
DRW.054C-OC13S, 13M, S.C. TAP-OFF ON LIGHT ANGLE STRUCTURE 6°-15° WITH STAY FOR QUAIL MAIN & QUAIL TAP-OFF

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SDCS-01

Dated: 24-06-2003



DRW.055-OC13S, 13M, S.C. TAP-OFF ON MEDIUM & HEAVY 16°-90° ANGLE STRUCTURE WITH STAYS



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

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	Dated:	24-06-2003
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SERIAL QTY BILL OF MATERIALS DESCRIPTION REFERENCES				
NO.	QTY BILL OF MATERIALS DESCRIPTION  1 OC13S 13 Mater Steel Pole HDC Single Circuit			
01	1	OC13S — 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	4	Crossarm — L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	4	Brace — L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	4	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	4	Line Post Insulator	15-SDMS-01	Clause 4.
06	9 Set	Suspension Insulator	15-SDMS-01	Page 23
07	6	Parallel Groove Compression Connector for Merlin—Merlin	20-SDMS-02	Fig. 39
80	2	Parallel Groove Compression Connector for Quail	20-SDMS-02	Fig. 39
09	22	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	9	Strain Clamp, 3 U—Bolts Type for Merlin	20-SDMS-02	Fig. 29
14	12	Anchor Shackle	20-SDMS-02	Fig. 20
15	9	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
17	4	Preformed Line Post Insulator Top Tie for Merlin	20-SDMS-02	Fig. 35
18	7	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
19	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/5
20	56M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
21	2 Set	M.V.—S.C. Two Stay Assembly	20-SDMS-02	Drw. 304
22	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49&
23	16M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
24	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
25	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
26	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.055A-OC13S, 13M, S.C.TAP-OFF ON MEDIUM & HEAVY ANGLE 16°-90° WITH STAYS FOR MERLIN MAIN & MERLIN TAP-OFF



# الشركة السعودية للكهرباء

SDCS-01

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION		REFERENCES	
01	1	OC13S — 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35	
02	4	Crossarm — L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01	
03	4	Brace — L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04	
04	4	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04	
05	4	Line Post Insulator	15-SDMS-01	Clause 4.:	
06	9 Set	Suspension Insulator	15-SDMS-01	Page 23	
07a	3	Parallel Groove Compression Connector for Merlin — Merlin	20-SDMS-02	Fig. 39	
07b	3	Parallel Groove Compression Connector for Merlin — Quail	20-SDMS-02	Fig. 39	
80	2	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39	
09	22	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15	
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15	
11	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15	
12	3	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30	
13a	6	Strain Clamp, 3 U—Bolts Type for Merlin	20-SDMS-02	Fig. 29	
13b	3	Strain Clamp, 3 U—Bolts Type for Quail	20-SDMS-02	Fig. 29	
14	12	Anchor Shackle	20-SDMS-02	Fig. 20	
15	9	Clevis Eye Extension	20-SDMS-02	Fig. 21	
16	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05	
17a	2	Preformed Line Post Insulator Top Tie for Merlin	20-SDMS-02	Fig. 35	
17b	2	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35	
18	7	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07	
19	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/5	
20	56M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)			
21	2 Set	M.V.—S.C. Two Stay Assembly	20-SDMS-02	Drw. 304	
22	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/5	
23	16M	Anti—Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13	
24	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13	
25	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51	
26	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51	
		MERLIN MAIN & QUAIL TAP-OFF			

DRW.055B-OC13S, 13M, S.C.TAP-OFF ON MEDIUM & HEAVY ANGLE 16°-90° WITH STAYS FOR MERLIN MAIN & QUAIL TAP-OFF



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

	Dated:	24-06-2003
ı	Dated:	24-06-2003

SERIAL QTY BILL OF MATERIALS DESCRIPTION		REFEREN	REFERENCES		
<b>NO.</b>	1	OC13S - 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35	
02	4	Crossarm — L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01	
03	4	Brace — L 50x50x4x828mm L.G.	20-SDMS-02 Fig. 04		
04	4	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02		
05	4	Line Post Insulator	15-SDMS-01	Clause 4.	
06	9 Set	Suspension Insulator	15-SDMS-01	Page 23	
07	6	Parallel Groove Compression Connector for Quail — Quail	20-SDMS-02	Fig. 39	
08	2	Parallel Groove Compression Connector for Quail	20-SDMS-02	Fig. 39	
09	22	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15	
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15	
11	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15	
12	3	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30	
13	9	Strain Clamp, 3 U—Bolts Type for Quail	20-SDMS-02	Fig. 29	
14	12	Anchor Shackle	20-SDMS-02	Fig. 20	
15	9	Clevis Eye Extension	20-SDMS-02	Fig. 21	
16	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05	
17	4	Preformed Line Post Insulator Top Tie for Quail		Fig. 35	
18	7	Double Arming Plate, 100x12x700mm	20-SDMS-02		
19	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/5	
20	56M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)			
21	2 Set	M.V.—S.C. Two Stay Assembly	20-SDMS-02	Drw. 304	
22	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49&	
23	16M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13	
24	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13	
25	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51	
26	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51	
		67.44mm2 ACSR/AW, QUAIL			

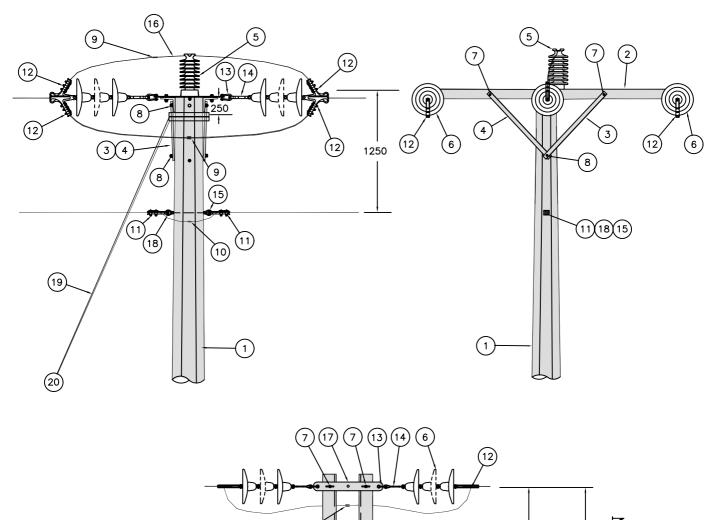
DRW.055C-OC13S, 13M, S.C.TAP-OFF ON MEDIUM & HEAVY ANGLE 16°-90° WITH STAYS FOR QUAIL MAIN & QUAIL TAP-OFF

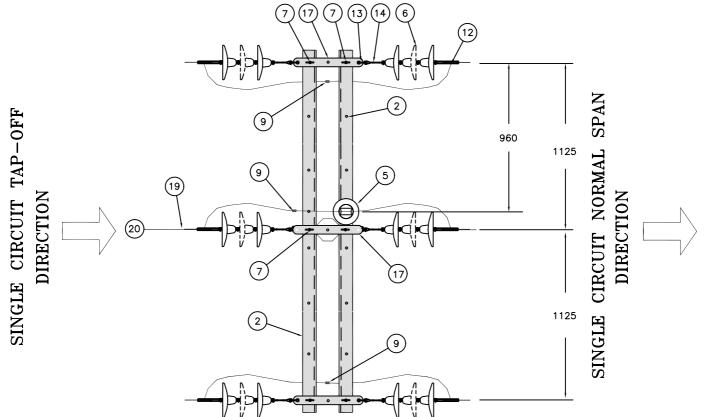


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DRW.056-OC13S, 13M, SINGLE CIRCUIT, SLACK POLE STRUC. WITH STAYS FROM SINGLE CIRCUIT TAP-OFF



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### SEC DISTRIBUTION CONSTRUCTION STANDARDS

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Dated: 24-06-2003

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S — 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	2	Crossarm — L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace — L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	6	Strain Clamp, 3 U—Bolts Type for Merlin	20-SDMS-02	Fig. 29
13	6	Anchor Shackle	20-SDMS-02	Fig. 20
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Shoulder Eye Bolt, M20x260mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
16	1	Preformed Line Post Insulator Top Tie For 170.5mm2 ACSR/AW (Merlin)		Fig. 35
17	3	Double Arming Plate, 100x12x700mm		Fig. 07
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19
19	30M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
20	1 Set	M.V.—S.C. Two Stay Assembly	20-SDMS-02	Drw. 301
21	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
22	16M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
23	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
24	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
25	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.056A-OC13S, 13M, SINGLE CIRCUIT, SLACK POLE STRUCTURE WITH STAYS FROM SINGLE CIRCUIT TAP-OFF (MERLIN MAIN)



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: 24-06-2003

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S — 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	2	Crossarm - L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace - L 50x50x4x828mm L.G.	20-SDMS-02 Fig. 04	
04	2	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Parallel Groove Comp. Connector for 67.44mm ACSR/AW (Quail)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	6	Strain Clamp, 3 U—Bolts Type for Quail	20-SDMS-02	Fig. 29
13	6	Anchor Shackle	20-SDMS-02	Fig. 20
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Shoulder Eye Bolt, M20x260mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
16	1	Preformed Line Post Insulator Top Tie For 67.44mm ACSR/AW (Quail) 20-SDMS		Fig. 35
17	3	Double Arming Plate, 100x12x700mm		Fig. 07
18	1	Eye Nut For M20 20-SDMS		Fig. 19
19	30M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
20	1 Set	M.V.—S.C. Two Stay Assembly	20-SDMS-02	Drw. 301
21	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
22	16M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
23	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
24	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
25	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		
	<u> </u>	OI-IIIIIII IODIVAII, QUAIL		

DRW.056B-OC13S, 13M, SINGLE CIRCUIT, SLACK POLE STRUCTURE WITH STAYS FROM SINGLE CIRCUIT TAP-OFF (QUAIL MAIN)

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DRW.057-OC14S,14M, S.C.TAP-OFF ON INTERMEDIATE 0°-5° STRUC. W/STAYS

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# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: 24-06-2003

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S — 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	3	Crossarm - L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	3	Brace — L 50x50x4x828mm L.G.	20-SDMS-02 Fig. 04	
04	3	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	5	Line Post Insulator	15-SDMS-01	Clause 4.2
06	3 Set	Suspension Insulator	15-SDMS-01	Page 23
07	3	Parallel Groove Compression Connector for Merlin—Merlin	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
09	14	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	3	Strain Clamp, 3 U—Bolts Type for Merlin	20-SDMS-02	Fig. 29
14	4	Anchor Shackle	20-SDMS-02	Fig. 20
15	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	3 Set	Preformed Armoured Rods for 170.5mm2 ASCR/AW (Merlin)	20-SDMS-02	Fig. 38
17a	3	Preformed Line Post Insulator Top Tie for Merlin With Armour	20-SDMS-02	Fig. 35
17b	2	Preformed Line Post Insulator Top Tie for Merlin	20-SDMS-02	Fig. 35
18	4	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
19	1	Earthwire Support Plate	20-SDMS-02	Fig. 06
20	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
21	1 Set	Preformed Armoured Rods for 67.44mm2 ASCR/AW (Quail)	20-SDMS-02	Fig. 38
22	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/5
23	29M	Stay Wire 7/4, 12mm dia. HDG Steel, UTS 101kN (Min)		
24	1 Set	M.V.—S.C. Two Stay Assembly	20-SDMS-02	Drw. 301
25	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/5
26	17M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
27	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
28	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
29	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.057A-OC14S, 14M, S.C. TAP-OFF ON INTERMEDIATE 0°-5° STRUC.
WITH STAYS FOR MERLIN MAIN & MERLIN TAP-OFF



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: 24-06-2003
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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION REFERENCE		ICES	
01	1	OC14S — 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36	
02	3	Crossarm — L 100x100x12x2400mm L.G.	20-SDMS-02 Fig. 01		
03	3	Brace - L 50x50x4x828mm L.G.	20-SDMS-02 Fig. 04		
04	3	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02 Fig. 04		
05	5	Line Post Insulator	15-SDMS-01	15-SDMS-01 Clause 4.2.8	
06	3 Set	Suspension Insulator	15-SDMS-01	Page 23	
07	3	Parallel Groove Compression Connector for Merlin — Quail	20-SDMS-02	Fig. 39	
08	1	Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39	
09	14	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15	
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15	
11	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15	
12	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30	
13	3	Strain Clamp, 3 U—Bolts Type for Quail	20-SDMS-02	Fig. 29	
14	4	Anchor Shackle	20-SDMS-02	Fig. 20	
15	3	Clevis Eye Extension	20-SDMS-02	Fig. 21	
16	3 Set	Preformed Armoured Rods for 170.5mm2 ASCR/AW (Merlin)	20-SDMS-02	Fig. 38	
17a	3	Preformed Line Post Insulator Top Tie for Merlin With Armour		Fig. 35	
17b	2	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02 Fig. 35		
18	4	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07	
19	1	Earthwire Support Plate	20-SDMS-02	Fig. 06	
20	1	Earthwire Suspension Support 20-SDMS-		Fig. 05	
21	1 Set	Preformed Armoured Rods for 67.44mm2 ASCR/AW (Quail)	20-SDMS-02	Fig. 38	
22	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54	
23	29M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)			
24	1 Set	M.V.—S.C. Two Stay Assembly	20-SDMS-02	Drw. 301	
25	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49&50	
26	17M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13	
27	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13	
28	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51	
29	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51	
		MERLIN MAIN & QUAIL TAP-OFF			

DRW.057B-OC14S, 14M, S.C. TAP-OFF ON INTERMEDIATE 0°-5° STRUC.
WITH STAYS FOR MERLIN MAIN & QUAIL TAP-OFF



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### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: 24-06-2003

SERIAL	SEDIAL.				
NO.	QTY	BILL OF MATERIALS DESCRIPTION REFERENCES			
01	1	OC14S — 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36	
02	3	Crossarm — L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01	
03	3	Brace - L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04	
04	3	Brace — L 50x50x4x828mm L.G. With One End Clipped	Brace - L 50x50x4x828mm L.G. With One End Clipped 20-SDMS-02 Fig.		
05	5	Line Post Insulator 15-SDMS-01 Clau		Clause 4.2.8	
06	3 Set	Suspension Insulator	Suspension Insulator 15-SDMS-01 Pa		
07	3	Parallel Groove Compression Connector for Quail—Quail	20-SDMS-02	Fig. 39	
08	1	Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39	
09	14	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15	
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15	
11	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15	
12	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30	
13	3	Strain Clamp, 3 U—Bolts Type for Quail	20-SDMS-02	Fig. 29	
14	4	Anchor Shackle	20-SDMS-02	Fig. 20	
15	3	Clevis Eye Extension	20-SDMS-02	Fig. 21	
16	3 Set	Preformed Armoured Rods for 67.44mm2 ASCR/AW (Quail)	20-SDMS-02	Fig. 38	
17a	3	Preformed Line Post Insulator Top Tie for Quail With Armour	20-SDMS-02	Fig. 35	
17b	2	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35	
18	4	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07	
19	1	Earthwire Support Plate	20-SDMS-02	Fig. 06	
20	1	Earthwire Suspension Support 20-SDMS-02		Fig. 05	
21	1 Set	Preformed Armoured Rods for 67.44mm2 ASCR/AW (Quail)	20-SDMS-02	Fig. 38	
22	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54	
23	29M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)			
24	1 Set	M.V.—S.C. Two Stay Assembly	20-SDMS-02	Drw. 301	
25	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50	
26	17M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13	
27	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13	
28	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51	
29	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51	
		67.44mm2 ACSR/AW, QUAIL			
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DRW.057C-OC14S, 14M, S.C. TAP-OFF ON INTERMEDIATE 0°-5° STRUC.
WITH STAYS FOR QUAIL MAIN & QUAIL TAP-OFF

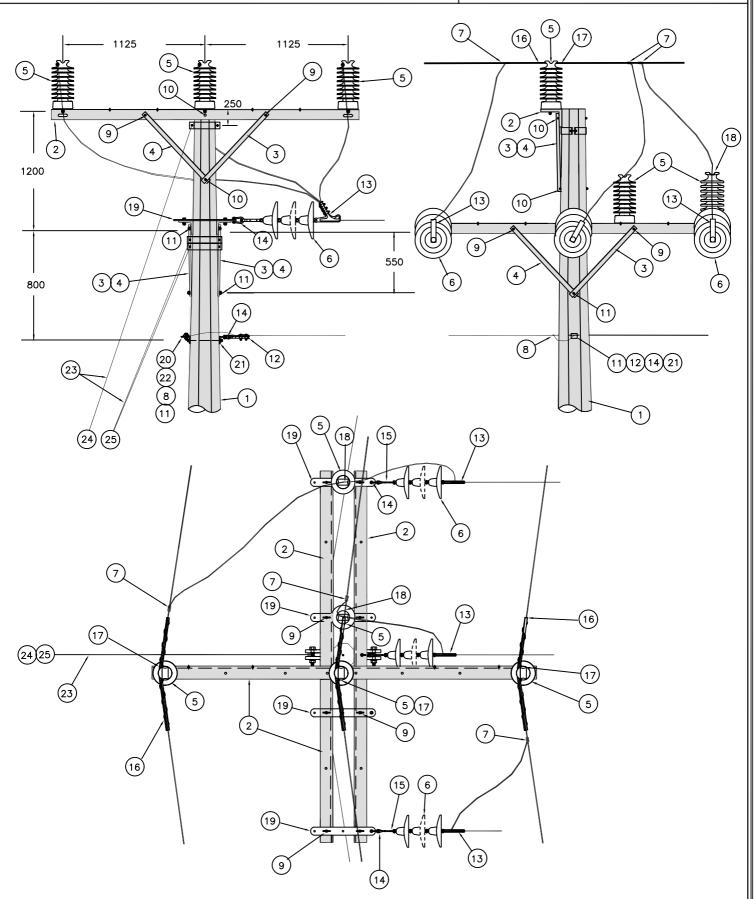


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SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: 24-06-2003



DRW.058-OC14S,14M,S.C. TAP-OFF ON LIGHT ANGLE 6°-15° STURC.W/STAYS



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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S — 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	3	Crossarm - L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	3	Brace - L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	3	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	5	Line Post Insulator	Line Post Insulator 15-SDMS-01 Clau	
06	3 Set	Suspension Insulator 15-SDMS-0		Page 23
07	3	Parallel Groove Compression Connector for Merlin—Merlin	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
09	14	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	3	Strain Clamp, 3 U—Bolts Type for Merlin	20-SDMS-02	Fig. 29
14	4	Anchor Shackle	20-SDMS-02	Fig. 20
15	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	3 Set	Preformed Armoured Rods for 170mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
17	3	Preformed Line Post Insulator Side Tie for Merlin With Armour	20-SDMS-02	Fig. 36
18	2	Preformed Line Post Insulator Top Tie for Merlin	20-SDMS-02	Fig. 35
19	4	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
20	1	Earthwire Support Plate	20-SDMS-02	Fig. 06
21	1	Earthwire Suspension Support		Fig. 05
22	1 Set	Preformed Armoured Rods for 67.44mm2 ASCR/AW (Quail)	20-SDMS-02	Fig. 38
23	45M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
24	1 Set	M.V.—S.C. One Stay Assembly	20-SDMS-02	Drw. 303
25	1 Set	M.V.—S.C. Two Stay Assembly	20-SDMS-02	Drw. 304
26	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
27	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
28	17M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
29	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
30	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
31	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		
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DRW.058A-OC14S, 14M, S.C. TAP-OFF ON LIGHT ANGLE STRUCTURE 6°-15° WITH STAYS FOR MERLIN MAIN & MERLIN TAP-OFF



# الشركة السعودية للكهرباء

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MIDOTION	CONSTRUCTION	STANDANDS	Dated:	24-06-2003

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	NCES
01	1	OC14S — 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	3	Crossarm — L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	3	Brace - L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	3	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	5	Line Post Insulator	15-SDMS-01	Clause 4.2.
06	3 Set	Suspension Insulator	15-SDMS-01	Page 23
07	3	Parallel Groove Compression Connector for Merlin — Quail	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
09	14	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	3	Strain Clamp, 3 U—Bolts Type for Quail	20-SDMS-02	Fig. 29
14	4	Anchor Shackle	20-SDMS-02	Fig. 20
15	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	3 Set	Preformed Armoured Rods for 170mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
17	3	Preformed Line Post Insulator Side Tie for Merlin With Armour	20-SDMS-02	Fig. 36
18	2	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
19	4	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
20	1	Earthwire Support Plate	20-SDMS-02	Fig. 06
21	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
22	1 Set	Preformed Armoured Rods for 67.44mm2 ASCR/AW (Quail)	20-SDMS-02	Fig. 38
23	45M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
24	1 Set	M.V.—S.C. One Stay Assembly	20-SDMS-02	Drw. 303
25	1 Set	M.V.—S.C. Two Stay Assembly	20-SDMS-02	Drw. 304
26	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
27	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
28	17M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
29	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
30	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
31	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		MERLIN MAIN & QUAIL TAP-OFF		

DRW.058B-OC14S, 14M, S.C. TAP-OFF ON LIGHT ANGLE STRUCTURE 6°-15° WITH STAYS FOR MERLIN MAIN & QUAIL TAP-OFF



# الشركة السعودية للكهرباء

#### SEC I

SDCS-01

DICTRIBUTION	CONSTRUCTION	CTANDADDC		SDCS 01
DISTRIBUTION	CONSTRUCTION	STANDARDS	Dated:	24-06-2003

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	NCES
01	1	OC14S — 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	3	Crossarm - L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	3	Brace - L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	3	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	5	Line Post Insulator	15-SDMS-01	Clause 4.2.
06	3 Set	Suspension Insulator	15-SDMS-01	Page 23
07	3	Parallel Groove Compression Connector for Quail—Quail	20-SDMS-02	Fig. 39
80	1	Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
09	14	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	3	Strain Clamp, 3 U—Bolts Type for Quail	20-SDMS-02	Fig. 29
14	4	Anchor Shackle	20-SDMS-02	Fig. 20
15	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	3 Set	Preformed Armoured Rods for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
17	3	Preformed Line Post Insulator Side Tie for Quail With Armour	20-SDMS-02	Fig. 36
18	2	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
19	4	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 7
20	1	Earthwire Support Plate	20-SDMS-02	Fig. 06
21	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
22	1 Set	Preformed Armoured Rods for 67.44mm2 ASCR/AW (Quail)	20-SDMS-02	Fig. 38
23	45M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
24	1 Set	M.V.—S.C. One Stay Assembly	20-SDMS-02	Drw. 303
25	1 Set	M.V.—S.C. Two Stay Assembly	20-SDMS-02	Drw. 304
26	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
27	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
28	17M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
29	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
30	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
31	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.058C-OC14S, 14M, S.C. TAP-OFF ON LIGHT ANGLE STRUCTURE 6°-15° WITH STAY FOR QUAIL MAIN & QUAIL TAP-OFF

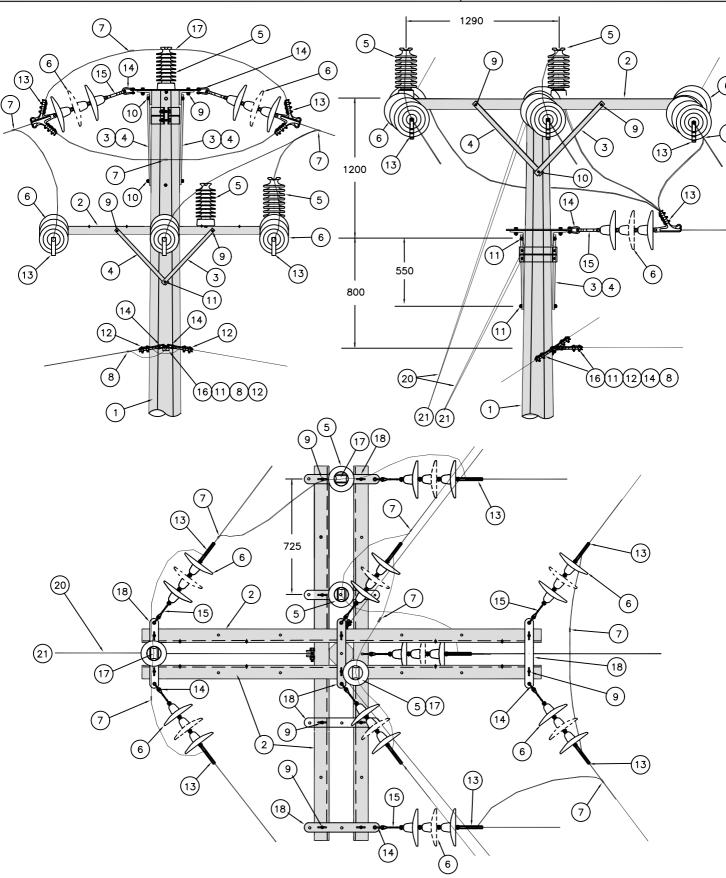


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SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: 24-06-2003



DRW.059-OC14S, 14M, S.C. TAP-OFF ON MEDIUM & HEAVY 16°-90° ANGLE STRUCTURE WITH STAYS



# الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: 24-06-2003		Dated:	24-06-2003
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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
01	1	OC14S — 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	4	Crossarm — L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	4	Brace - L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	4	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	4	Line Post Insulator	15-SDMS-01	Clause 4.2.
06	9 Set	Suspension Insulator	15-SDMS-01	Page 23
07	6	Parallel Groove Compression Connector for Merlin—Merlin	20-SDMS-02	Fig. 39
08	2	Parallel Groove Compression Connector for Quail	20-SDMS-02	Fig. 39
09	22	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	9	Strain Clamp, 3 U—Bolts Type for Merlin	20-SDMS-02	Fig. 29
14	12	Anchor Shackle	20-SDMS-02	Fig. 20
15	9	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
17	4	Preformed Line Post Insulator Top Tie for Merlin	20-SDMS-02	Fig. 35
18	7	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
19	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
20	61M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
21	2 Set	M.V.—S.C. Two Stay Assembly	20-SDMS-02	Drw. 304
22	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
23	17M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
24	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
25	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
26	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.059A-OC14S, 14M, S.C.TAP-OFF ON MEDIUM & HEAVY ANGLE 16°-90° WITH STAYS FOR MERLIN MAIN & MERLIN TAP-OFF



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EC	DISTRIBUTION	CONSTRUCTION	STANDARDS		5200 01
				Dated:	24-06-2003

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
01	1	OC14S — 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	4	Crossarm - L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	4	Brace - L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	4	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	4	Line Post Insulator	15-SDMS-01	Clause 4.
06	9 Set	Suspension Insulator	15-SDMS-01	Page 23
07a	3	Parallel Groove Compression Connector for Merlin — Merlin	20-SDMS-02	Fig. 39
07b	3	Parallel Groove Compression Connector for Merlin — Quail	20-SDMS-02	Fig. 39
08	2	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
09	22	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13a	6	Strain Clamp, 3 U—Bolts Type for Merlin	20-SDMS-02	Fig. 29
13b	3	Strain Clamp, 3 U—Bolts Type for Quail	20-SDMS-02	Fig. 29
14	12	Anchor Shackle	20-SDMS-02	Fig. 20
15	9	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
17a	2	Preformed Line Post Insulator Top Tie for Merlin	20-SDMS-02	Fig. 35
17b	2	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
18	7	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
19	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/5
20	61M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
21	2 Set	M.VS.C. Two Stay Assembly	20-SDMS-02	Drw. 304
22	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/5
23	17M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
24	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
25	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
26	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		MERLIN MAIN & QUAIL TAP-OFF		

DRW.059B-OC14S, 14M, S.C.TAP-OFF ON MEDIUM & HEAVY ANGLE 16°-90° WITH STAYS FOR MERLIN MAIN & QUAIL TAP-OFF



# الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

	Dated: 24-06-2003
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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
01	1	OC14S — 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	4	Crossarm - L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	4	Brace - L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	4	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	4	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	9 Set	Suspension Insulator	15-SDMS-01	Page 23
07	6	Parallel Groove Compression Connector for Quail — Quail	20-SDMS-02	Fig. 39
08	2	Parallel Groove Compression Connector for Quail	20-SDMS-02	Fig. 39
09	22	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	9	Strain Clamp, 3 U—Bolts Type for Quail	20-SDMS-02	Fig. 29
14	12	Anchor Shackle	20-SDMS-02	Fig. 20
15	9	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
17	4	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
18	7	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
19	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
20	61M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
21	2 Set	M.V.—S.C. Two Stay Assembly	20-SDMS-02	Drw. 304
22	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
23	17M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
24	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
25	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
26	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mM2 ACSR/AW, QUAIL		

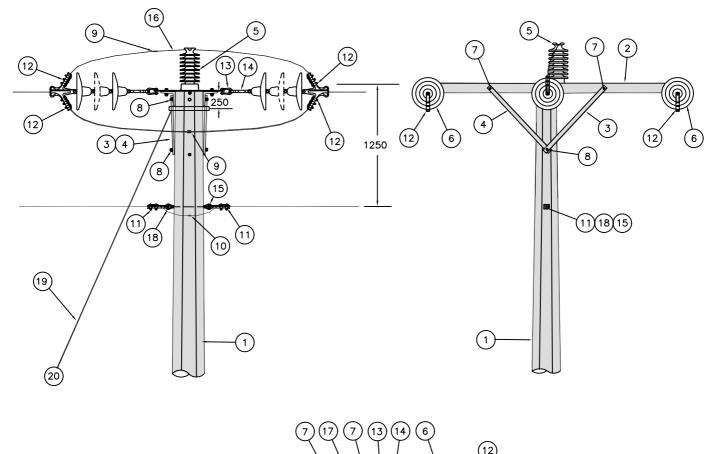
DRW.059C-OC14S, 14M, S.C.TAP-OFF ON MEDIUM & HEAVY ANGLE 16°-90° WITH STAYS FOR QUAIL MAIN & QUAIL TAP-OFF

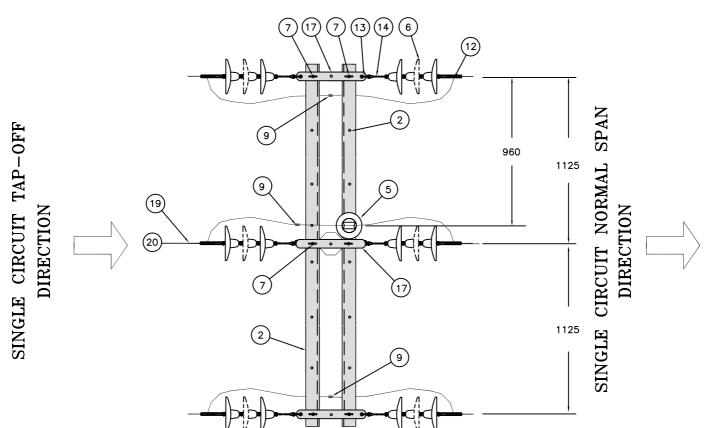


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DRW.060-OC14S, 14M, SINGLE CIRCUIT, SLACK POLE STRUCTURE WITH STAYS FROM SINGLE CIRCUIT TAP-OFF



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#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

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Dated:	24-06-2003	

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERE	NCES	
01	1	OC14S — 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36	
02	2	Crossarm — L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01	
03	2	Brace — L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04	
04	2	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04	
05	1	Line Post Insulator	15-SDMS-01	Clause 4.2.8	
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23	
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15	
08	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15	
09	3	Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 39	
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39	
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30	
12	6	Strain Clamp, 3 U—Bolts Type for Merlin	20-SDMS-02	Fig. 29	
13	6	Anchor Shackle	20-SDMS-02	Fig. 20	
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21	
15	1	Shoulder Eye Bolt, M20x260mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17	
16	1	Preformed Line Post Insulator Top Tie For 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 35	
17	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07	
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19	
19	32M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)			
20	1 Set	M.V.—S.C. Two Stay Assembly	20-SDMS-02	Drw. 303	
21	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50	
22	17M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13	
23	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13	
24	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51	
25	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51	
		170.5mm2 ACSR/AW, MERLIN MAIN			
		· ·	<u> </u>	l	

DRW.060A-OC14S, 14M, SINGLE CIRCUIT, SLACK POLE STRUCTURE WITH STAYS FROM SINGLE CIRCUIT TAP-OFF (MERLIN MAIN)



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			Dated:	24-00-2003

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION		NCES
01	1	OC14S — 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	2	Crossarm - L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace — L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	6	Strain Clamp, 3 U—Bolts Type for Quail	20-SDMS-02	Fig. 29
13	6	Anchor Shackle	20-SDMS-02	Fig. 20
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Shoulder Eye Bolt, M20x260mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
16	1	Preformed Line Post Insulator Top Tie For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 35
17	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19
19	32M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
20	1 Set	M.V.—S.C. Two Stay Assembly	20-SDMS-02	Drw. 303
21	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
22	17M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
23	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
24	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
25	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
	<u> </u>	67.44mm2 ACR/AW, QUAIL MAIN		

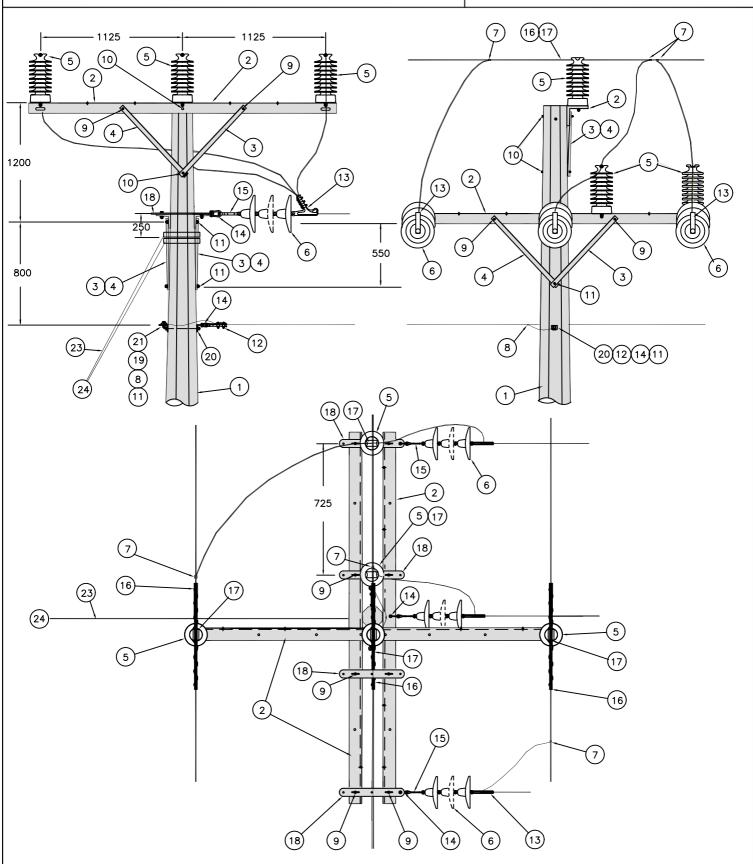
DRW.060B-OC14S, 14M, SINGLE CIRCUIT, SLACK POLE STRUCTURE WITH STAYS FROM SINGLE CIRCUIT TAP-OFF (QUAIL MAIN)

# Saudi Electricity Company SEC DISTRIBUTION CONSTRUCTION STANDARDS

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SDCS-01

Dated: 24-06-2003



DRW.061-OC15S/D, 15M, S.C. TAP-OFF ON INTERMEDIATE 0°-5° STRUCTURE WITH STAYS



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Dated: 24-06-2003

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERE	NCES
01	1	OC15S/D — 15 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 38
02	3	Crossarm - L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	3	Brace - L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	3	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	5	Line Post Insulator	15-SDMS-01	Clause 4.2
06	3 Set	Suspension Insulator	15-SDMS-01	Page 23
07	3	Parallel Groove Compression Connector for Merlin—Merlin	20-SDMS-02	Fig. 39
80	1	Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
09	14	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	3	Strain Clamp, 3 U—Bolts Type for Merlin	20-SDMS-02	Fig. 29
14	4	Anchor Shackle	20-SDMS-02	Fig. 20
15	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	3 Set	Preformed Armoured Rods for 170.5mm2 ASCR/AW (Merlin)	20-SDMS-02	Fig. 38
17a	3	Preformed Line Post Insulator Top Tie for Merlin With Armour	20-SDMS-02	Fig. 35
17b	2	Preformed Line Post Insulator Top Tie for Merlin	20-SDMS-02	Fig. 35
18	4	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
19	1	Earthwire Support Plate	20-SDMS-02	Fig. 06
20	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
21	1 Set	Preformed Armoured Rods for 67.44mm2 ASCR/AW (Quail)	20-SDMS-02	Fig. 38
22	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/5
23	31M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
24	1 Set	M.V.—S.C. Two Stay Assembly	20-SDMS-02	Drw. 304
25	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/5
26	18M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
27	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
28	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
29	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5 ACSR/AW, MERLIN		

DRW.061A-OC15S/D, 15M, S.C. TAP-OFF ON INTERMEDIATE 0°-5° STRUC.
WITH STAYS FOR MERLIN MAIN & MERLIN TAP-OFF



## الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: 24-06-2003

CDD747				
SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	NCES
01	1	OC14S - 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	3	Crossarm - L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	3	Brace - L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	3	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	5	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	3 Set	Suspension Insulator	15-SDMS-01	Page 23
07	3	Parallel Groove Compression Connector for Merlin — Quail	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
09	14	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	3	Strain Clamp, 3 U—Bolts Type for Quail	20-SDMS-02	Fig. 29
14	4	Anchor Shackle	20-SDMS-02	Fig. 20
15	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	3 Set	Preformed Armoured Rods for 170.5mm2 ASCR/AW (Merlin)	20-SDMS-02	Fig. 38
17a	3	Preformed Line Post Insulator Top Tie for Merlin With Armour	20-SDMS-02	Fig. 35
17b	2	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
18	4	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
19	1	Earthwire Support Plate	20-SDMS-02	Fig. 06
20	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
21	1 Set	Preformed Armoured Rods for 67.44mm2 ASCR/AW (Quail)	20-SDMS-02	Fig. 38
22	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
23	31M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
24	1 Set	M.V.—S.C. Two Stay Assembly	20-SDMS-02	Drw. 304
25	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
26	18M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
27	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
28	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
29	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		MERLIN MAIN & QUAIL TAP-OFF		

DRW.061B-OC15S/D, 15M,S.C. TAP-OFF ON INTERMEDIATE 0°-5° STRUC.
WITH STAYS FOR MERLIN MAIN & QUAIL TAP-OFF



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#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: 24-06-2003

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERE	ICES	
01	1	OC15S/D - 15 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 38	
02	3	Crossarm - L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01	
03	3	Brace - L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04	
04	3	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04	
05	5	Line Post Insulator	15-SDMS-01	Clause 4.2.8	
06	3 Set	Suspension Insulator	15-SDMS-01	Page 23	
07	3	Parallel Groove Compression Connector for Quail—Quail	20-SDMS-02	Fig. 39	
08	1	Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39	
09	14	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15	
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15	
11	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15	
12	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30	
13	3	Strain Clamp, 3 U—Bolts Type for Quail	20-SDMS-02	Fig. 29	
14	4	Anchor Shackle	20-SDMS-02	Fig. 20	
15	3	Clevis Eye Extension	20-SDMS-02	Fig. 21	
16	3 Set	Preformed Armoured Rods for 67.44mm2 ASCR/AW (Quail)	20-SDMS-02	Fig. 38	
17a	3	Preformed Line Post Insulator Top Tie for Quail With Armour	20-SDMS-02	Fig. 35	
17b	2	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35	
18	4	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07	
19	1	Earthwire Support Plate	20-SDMS-02	Fig. 06	
20	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05	
21	1 Set	Preformed Armoured Rods for 67.44mm2 ASCR/AW (Quail)	20-SDMS-02	Fig. 38	
22	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54	
23	31M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)			
24	1 Set	M.V.—S.C. Two Stay Assembly	20-SDMS-02	Drw. 304	
25	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50	
26	18M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13	
27	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13	
28	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51	
29	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51	
		67.44mm2 ACSR/AW, QUAIL			

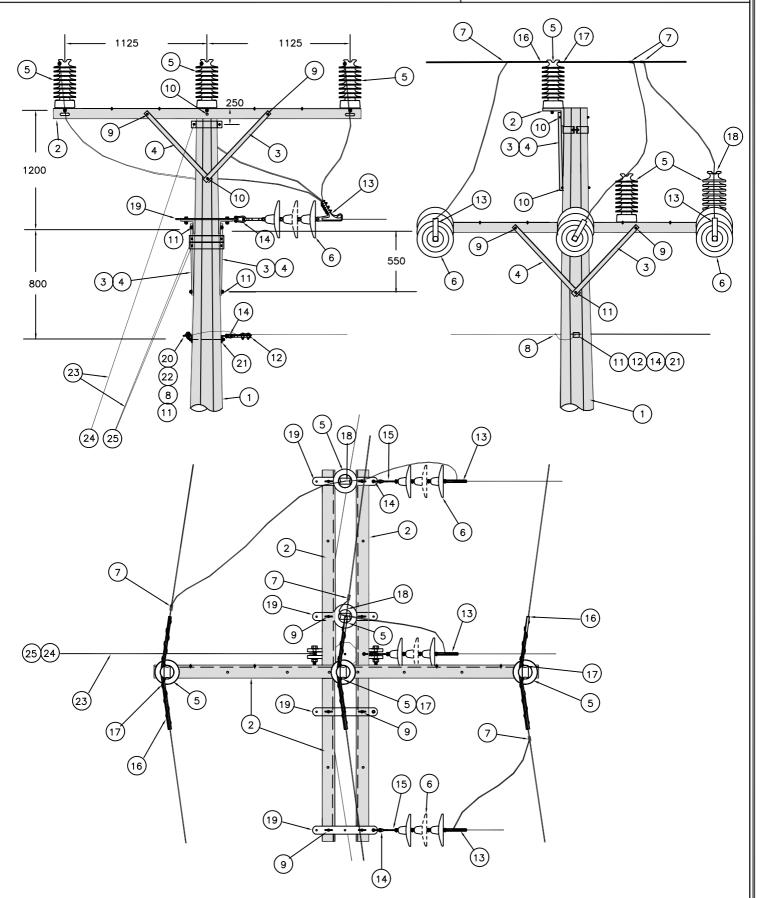
DRW.061C-OC15S/D, 15M, S.C. TAP-OFF ON INTERMEDIATE 0°-5° STRUC.
WITH STAYS FOR QUAIL MAIN & QUAIL TAP-OFF



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SDCS-01
Dated: 24-06-2003



DRW.062-OC15S/D,15M,S.C. TAP-OFF ON LIGHT ANGLE 6°-15° STUR.W/STAYS



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#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: 24-06-2003

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERE	NCES
01	1	OC15S/D — 15 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 38
02	3	Crossarm — L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	3	Brace - L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	3	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	5	Line Post Insulator	15-SDMS-01	Clause 4.2
06	3 Set	Suspension Insulator	15-SDMS-01	Page 23
07	3	Parallel Groove Compression Connector for Merlin—Merlin	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
09	14	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	3	Strain Clamp, 3 U—Bolts Type for Merlin	20-SDMS-02	Fig. 29
14	4	Anchor Shackle	20-SDMS-02	Fig. 20
15	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	3 Set	Preformed Armoured Rods for 170mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
17	3	Preformed Line Post Insulator Side Tie for Merlin With Armour	20-SDMS-02	Fig. 36
18	2	Preformed Line Post Insulator Top Tie for Merlin	20-SDMS-02	Fig. 35
19	4	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
20	1	Earthwire Support Plate	20-SDMS-02	Fig. 06
21	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
22	1 Set	Preformed Armoured Rods for 67.44mm2 ASCR/AW (Quail)	20-SDMS-02	Fig. 38
23	49M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
24	1 Set	M.V.—S.C. One Stay Assembly	20-SDMS-02	Drw. 303
25	1 Set	M.V.—S.C. Two Stay Assembly	20-SDMS-02	Drw. 304
26	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/5
27	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
28	18M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
29	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
30	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
31	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.062A-OC15S/D, 15M, S.C. TAP-OFF ON LIGHT ANGLE STRUCTURE 6°-15° WITH STAYS FOR MERLIN MAIN & MERLIN TAP-OFF



# الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

D:	ated:	24-06-2003
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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	NCES
01	1	OC15S/D — 15 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 38
02	3	Crossarm - L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	3	Brace — L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	3	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	5	Line Post Insulator	15-SDMS-01	Clause 4.2
06	3 Set	Suspension Insulator	15-SDMS-01	Page 23
07	3	Parallel Groove Compression Connector for Merlin — Quail	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
09	14	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	3	Strain Clamp, 3 U—Bolts Type for Quail	20-SDMS-02	Fig. 29
14	4	Anchor Shackle	20-SDMS-02	Fig. 20
15	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	3 Set	Preformed Armoured Rods for 170mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
17	3	Preformed Line Post Insulator Side Tie for Merlin With Armour	20-SDMS-02	Fig. 36
18	2	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
19	4	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
20	1	Earthwire Support Plate	20-SDMS-02	Fig. 06
21	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
22	1 Set	Preformed Armoured Rods for 67.44mm2 ASCR/AW (Quail)	20-SDMS-02	Fig. 38
23	49M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
24	1 Set	M.V.—S.C. One Stay Assembly	20-SDMS-02	Drw. 303
25	1 Set	M.V.—S.C. Two Stay Assembly	20-SDMS-02	Drw. 304
26	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
27	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49&50
28	18M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
29	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
30	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
31	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		MERLIN MAIN & QUAIL TAP-OFF		

DRW.062B-OC15S/D, 15M, S.C. TAP-OFF ON LIGHT ANGLE STRUCTURE 6°-15° WITH STAYS FOR MERLIN MAIN & QUAIL TAP-OFF



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#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: 24-06-2003

SERIAL OTT. DIVI OF MATERIALS DESCRIPTION.					
NO.	QTY	BILL OF MATERIALS DESCRIPTION		NCES	
01	1	OC15S/D — 15 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 38	
02	3	Crossarm — L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01	
03	3	Brace — L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04	
04	3	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04	
05	5	Line Post Insulator	15-SDMS-01	Clause 4.2.	
06	3 Set	Suspension Insulator	15-SDMS-01	Page 23	
07	3	Parallel Groove Compression Connector for Quail—Quail	20-SDMS-02	Fig. 39	
08	1	Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39	
09	14	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15	
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15	
11	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15	
12	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30	
13	3	Strain Clamp, 3 U—Bolts Type for Quail	20-SDMS-02	Fig. 29	
14	4	Anchor Shackle	20-SDMS-02	Fig. 20	
15	3	Clevis Eye Extension	20-SDMS-02	Fig. 21	
16	3 Set	Preformed Armoured Rods for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38	
17	3	Preformed Line Post Insulator Side Tie for Quail With Armour	20-SDMS-02	Fig. 36	
18	2	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35	
19	4	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07	
20	1	Earthwire Support Plate	20-SDMS-02	Fig. 06	
21	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05	
22	1 Set	Preformed Armoured Rods for 67.44mm2 ASCR/AW (Quail)	20-SDMS-02	Fig. 38	
23	49M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)			
24	1 Set	M.V.—S.C. One Stay Assembly	20-SDMS-02	Drw. 303	
25	1 Set	M.VS.C. Two Stay Assembly	20-SDMS-02	Drw. 304	
26	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54	
27	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50	
28	18M	Anti—Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13	
29	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13	
30	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51	
31	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51	
		67.44mm2 ACSR/AW, QUAIL			

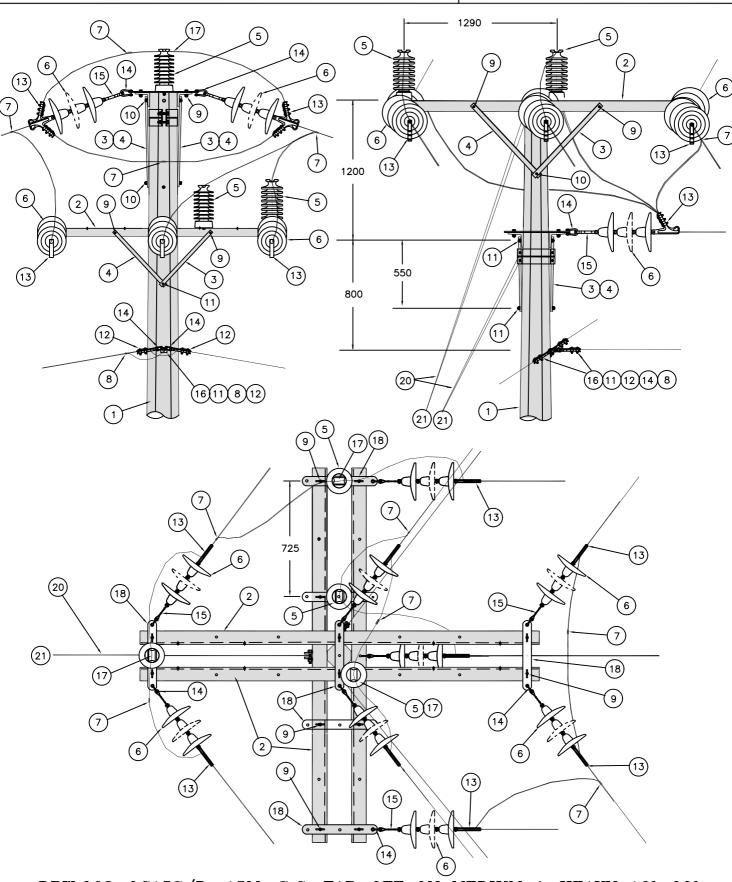
DRW.062C-OC15S/D, 15M, S.C. TAP-OFF ON LIGHT ANGLE STRUCTURE 6°-15° WITH STAY FOR QUAIL MAIN & QUAIL TAP-OFF



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DRW.063-OC15S/D, 15M, S.C. TAP-OFF ON MEDIUM & HEAVY 16°-90° ANGLE STRUCTURE WITH STAYS



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#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: 24-06-2003	
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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
01	1	OC15S/D — 15 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 38
02	4	Crossarm — L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	4	Brace - L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	4	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	4	Line Post Insulator	15-SDMS-01	Clause 4.2.
06	9 Set	Suspension Insulator	15-SDMS-01	Page 23
07	6	Parallel Groove Compression Connector for Merlin—Merlin	20-SDMS-02	Fig. 39
08	2	Parallel Groove Compression Connector for Quail	20-SDMS-02	Fig. 39
09	22	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	9	Strain Clamp, 3 U—Bolts Type for Merlin	20-SDMS-02	Fig. 29
14	12	Anchor Shackle	20-SDMS-02	Fig. 20
15	9	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
17	4	Preformed Line Post Insulator Top Tie for Merlin	20-SDMS-02	Fig. 35
18	7	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
19	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
20	66M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
21	2 Set	M.V.—S.C. Two Stay Assembly	20-SDMS-02	Drw. 304
22	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
23	18M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
24	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
25	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
26	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.063A-OC15S/D, 15M, S.C.TAP-OFF ON MEDIUM & HEAVY ANGLE 16°-90° WITH STAYS FOR MERLIN MAIN & MERLIN TAP-OFF



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#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

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Dated:	24-06-2003
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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES		
01	1	OC15S/D — 15 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 38	
02	2 4 Crossarm — L 100x100x12x2400mm L.G.		20-SDMS-02	Fig. 01	
03	4	Brace — L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04	
04	4	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04	
05	4	Line Post Insulator	15-SDMS-01	Clause 4.2	
06	9 Set	Suspension Insulator	15-SDMS-01	Page 23	
07a	3	Parallel Groove Compression Connector for Merlin — Merlin	20-SDMS-02	Fig. 39	
07b	3	Parallel Groove Compression Connector for Merlin — Quail	20-SDMS-02	Fig. 39	
08	2	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39	
09	22	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15	
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15	
11	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15	
12	3	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30	
13a	6	Strain Clamp, 3 U—Bolts Type for Merlin	20-SDMS-02	Fig. 29	
13b	3	Strain Clamp, 3 U—Bolts Type for Quail	20-SDMS-02	Fig. 29	
14	12	Anchor Shackle	20-SDMS-02	Fig. 20	
15	9	Clevis Eye Extension		Fig. 21	
16			20-SDMS-02	Fig. 05	
17a			20-SDMS-02	Fig. 35	
17b	2	2 Preformed Line Post Insulator Top Tie for Quail 20-SDMS-7 Double Arming Plate, 100x12x700mm 20-SDMS-		Fig. 35	
18	7			Fig. 07	
19	2 Set			Fig. 53/5	
20	66M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)			
21	2 Set	M.VS.C. Two Stay Assembly	20-SDMS-02	Drw. 304	
22	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/5	
23	18M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13	
24	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13	
25	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51	
26	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51	
		MERLIN MAIN & QUAIL TAP-OFF			

DRW.063B-OC15S/D, 15M, S.C. TAP-OFF ON MEDIUM & HEAVY ANGLE 16°-90° WITH STAYS FOR MERLIN MAIN & QUAIL TAP-OFF



# الشركة السعودية للكهرباء

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	MIDUTION	CONSTRUCTION	STANDANDS	Dated:	24-06-2003

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION		REFERENCES		
01	1	OC14S — 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36		
02 4 Crossarm — L 100x100x12x2400mm L.G.			20-SDMS-02	Fig. 01		
03	4	Brace — L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04		
04	4	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04		
05	4	Line Post Insulator	15-SDMS-01	Clause 4.		
06	9 Set	Suspension Insulator	15-SDMS-01	Page 23		
07	6	Parallel Groove Compression Connector for Quail — Quail	20-SDMS-02	Fig. 39		
08	2	Parallel Groove Compression Connector for Quail	20-SDMS-02	Fig. 39		
09	22	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15		
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15		
11	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15		
12	3	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30		
13	9	Strain Clamp, 3 U—Bolts Type for Quail	20-SDMS-02	Fig. 29		
14	12	Anchor Shackle	20-SDMS-02	Fig. 20		
15	9	Clevis Eye Extension	20-SDMS-02	Fig. 21		
16	1	Earthwire Suspension Support	20-SDMS-02 Fig. 05			
17	4	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35		
18	7	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07		
19	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/		
20	66M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)				
21	2 Set	M.V.—S.C. Two Stay Assembly	20-SDMS-02 Drw.			
22	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/		
23	18M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13		
24	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13		
25	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51		
26	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51		
				,		
		67.44mm2 ACSR/AW, QUAIL				

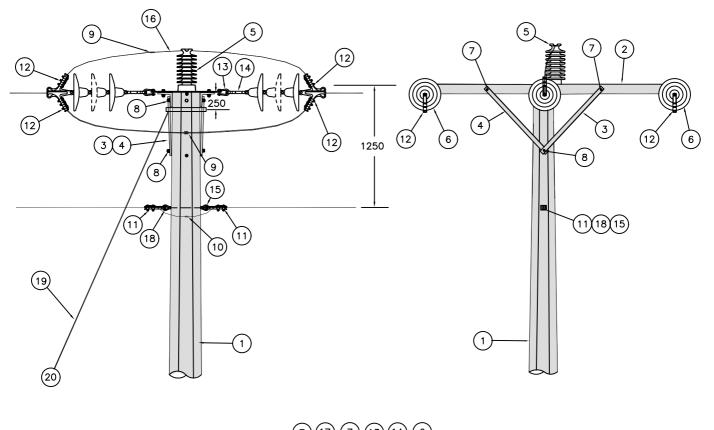
DRW.063C-OC15S/D, 15M, S.C. TAP-OFF ON MEDIUM & HEAVY ANGLE 16°-90° WITH STAYS FOR QUAIL MAIN & QUAIL TAP-OFF

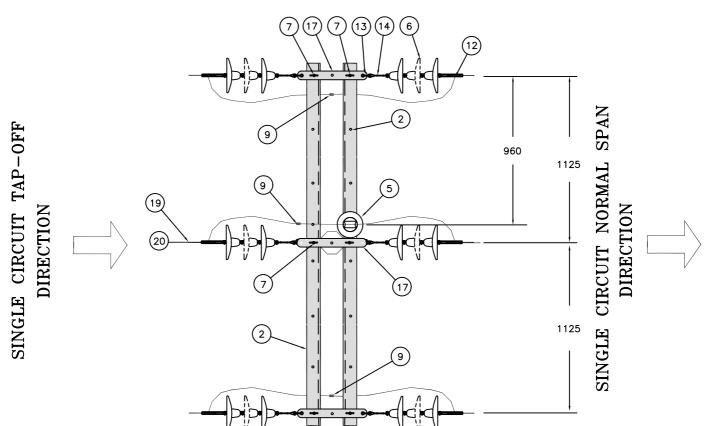


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SEC DISTRIBUTION CONSTRUCTION STANDARDS

	SDCS-01
Dated:	24-06-2003





DRW.064-OC15S/D, 15M, SINGLE CIRCUIT, SLACK POLE STRUCTURE WITH STAYS FROM SINGLE CIRCUIT TAP-OFF



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#### SE

EC DISTRIBUTION CONSTRUCTION S	STANDARDS	Dated:	24-06-2003

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES			
01	1	OC15S/D — 15 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 38		
02	2	Crossarm - L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01		
03	2	Brace - L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04		
04	2	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04		
05	1	Line Post Insulator	15-SDMS-01	Clause 4.2.8		
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23		
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15		
08	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15		
09	3	Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 39		
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39		
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30		
12	6	Strain Clamp, 3 U—Bolts Type for Merlin	20-SDMS-02	Fig. 29		
13	6	Anchor Shackle	20-SDMS-02	Fig. 20		
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21		
15	1	Shoulder Eye Bolt, M20x260mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17		
16	1	Preformed Line Post Insulator Top Tie For 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 35		
17	3	Double Arming Plate, 100x12x700mm		Fig. 07		
18	1	Eye Nut For M20		Fig. 19		
19	35M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)				
20	1 Set	M.V.—S.C. Two Stay Assembly		Drw. 303		
21	1 Set Danger Sign Plate Complete With Its Accessories		20-SDMS-02	Fig. 49/50		
22	18M	Anti-Climbing Device, Barbed Wire		Fig. 13		
23	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13		
24	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51		
25	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51		
		170.5mm2 ACSR/AW, MERLIN				

DRW.064A-OC15S/D, 15M, SINGLE CIRCUIT, SLACK POLE STRUCTURE WITH STAYS FROM SINGLE CIRCUIT TAP-OFF (MERLIN MAIN)



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SEC	DISTRIBUTION	CONSTRUCTION	STANDANDS	Dated:	24-06-2003

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES				
01	1	OC15S/D - 15 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 38			
02	2	Crossarm - L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01			
03	2	Brace - L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04			
04	2	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04			
05	1	Line Post Insulator	15-SDMS-01	Clause 4.2.8			
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23			
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15			
08	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15			
09	3	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39			
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39			
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30			
12	6	Strain Clamp, 3 U—Bolts Type for Quail	20-SDMS-02	Fig. 29			
13	6	Anchor Shackle	20-SDMS-02	Fig. 20			
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21			
15	1	Shoulder Eye Bolt, M20x260mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17			
16	1	Preformed Line Post Insulator Top Tie For 67.44mm2 ACSR/AW (Quail)		Fig. 35			
17	3	Double Arming Plate, 100x12x700mm		Fig. 07			
18	1	Eye Nut For M20		Fig. 19			
19	35M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)					
20	1 Set	M.V.—S.C. Two Stay Assembly		Drw. 303			
21	1 Set	Danger Sign Plate Complete With Its Accessories		Fig. 49/50			
22	18M	Anti-Climbing Device, Barbed Wire		Fig. 13			
23	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13			
24	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51			
25	25 1 Set Pole Numbering Plates		20-SDMS-02	Fig. 51			
		67.44mm2 ACSR/AW, QUAIL					

DRW.064B-OC15S/D, 15M, SINGLE CIRCUIT, SLACK POLE STRUCTURE WITH STAYS FROM SINGLE CIRCUIT TAP-OFF (QUAIL MAIN)